

# Guang-Sheng Wang

## List of Publications by Year in descending order

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103  
papers

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61945

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104  
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104  
docs citations

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times ranked

5171  
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced Microwave Absorption Property of Reduced Graphene Oxide (RGO)-MnFe <sub>2</sub> O <sub>4</sub> Nanocomposites and Polyvinylidene Fluoride. ACS Applied Materials & Interfaces, 2014, 6, 7471-7478.	4.0	694
2	Tunable High-Performance Microwave Absorption of Co <sub>1-x</sub> S Hollow Spheres Constructed by Nanosheets within Ultralow Filler Loading. Advanced Functional Materials, 2018, 28, 1800761.	7.8	361
3	Designed fabrication of reduced graphene oxides/Ni hybrids for effective electromagnetic absorption and shielding. Carbon, 2018, 139, 759-767.	5.4	267
4	Enhanced wave absorption of nanocomposites based on the synthesized complex symmetrical CuS nanostructure and poly(vinylidene fluoride). Journal of Materials Chemistry A, 2013, 1, 4685.	5.2	264
5	Controllable fabrication of mono-dispersed RGO-hematite nanocomposites and their enhanced wave absorption properties. Journal of Materials Chemistry A, 2013, 1, 5996.	5.2	251
6	Facial design and synthesis of CoSx/Ni-Co LDH nanocages with rhombic dodecahedral structure for high-performance asymmetric supercapacitors. Chemical Engineering Journal, 2019, 372, 151-162.	6.6	231
7	Polymer-composite with high dielectric constant and enhanced absorption properties based on graphene-CuS nanocomposites and polyvinylidene fluoride. Journal of Materials Chemistry A, 2013, 1, 12115.	5.2	226
8	Tunable and Ultraefficient Microwave Absorption Properties of Trace N-Doped Two-Dimensional Carbon-Based Nanocomposites Loaded with Multi-Rare Earth Oxides. Small, 2020, 16, e1906668.	5.2	220
9	Modulation of electromagnetic wave absorption by carbon shell thickness in carbon encapsulated magnetite nanospindles-poly(vinylidene fluoride) composites. Carbon, 2015, 95, 870-878.	5.4	195
10	Flexible nanocomposites with enhanced microwave absorption properties based on Fe <sub>3</sub> O <sub>4</sub> /SiO <sub>2</sub> nanorods and polyvinylidene fluoride. Journal of Materials Chemistry A, 2015, 3, 12197-12204.	5.2	165
11	3D Ultralight Hollow NiCo Compound@MXene Composites for Tunable and High-Efficient Microwave Absorption. Nano-Micro Letters, 2021, 13, 206.	14.4	165
12	Self-Supported Construction of Three-Dimensional MoS <sub>2</sub> Hierarchical Nanospheres with Tunable High-Performance Microwave Absorption in Broadband. Journal of Physical Chemistry C, 2016, 120, 22019-22027.	1.5	163
13	Binary synergistic enhancement of dielectric and microwave absorption properties: A composite of arm symmetrical PbS dendrites and polyvinylidene fluoride. Nano Research, 2017, 10, 284-294.	5.8	162
14	Controllable synthesis of uniform ZnO nanorods and their enhanced dielectric and absorption properties. Journal of Materials Chemistry A, 2014, 2, 8644-8651.	5.2	141
15	Balancing Dielectric Loss and Magnetic Loss in Fe-NiS <sub>2</sub> /NiS/PVDF Composites toward Strong Microwave Reflection Loss. ACS Applied Materials & Interfaces, 2020, 12, 14416-14424.	4.0	136
16	Fabrication of radial ZnO nanowire clusters and radial ZnO/PVDF composites with enhanced dielectric properties. Advanced Functional Materials, 2008, 18, 2584-2592.	7.8	135
17	Fabrication of multi-functional PVDF/RGO composites via a simple thermal reduction process and their enhanced electromagnetic wave absorption and dielectric properties. RSC Advances, 2014, 4, 19594-19601.	1.7	122
18	Polymer composites with enhanced wave absorption properties based on modified graphite and polyvinylidene fluoride. Journal of Materials Chemistry A, 2013, 1, 7031.	5.2	105

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19	Nanocomposites of Oriented Nickel Chains with Tunable Magnetic Properties for High-Performance Broadband Microwave Absorption. <i>ACS Applied Nano Materials</i> , 2018, 1, 1116-1123.	2.4	103
20	Synthesis of nickel chalcogenide hollow spheres using an L-cysteine-assisted hydrothermal process for efficient supercapacitor electrodes. <i>Journal of Materials Chemistry A</i> , 2017, 5, 3621-3627.	5.2	99
21	Enhanced absorbing properties of three-phase composites based on a thermoplastic-ceramic matrix (BaTiO <sub>3</sub> + PVDF) and carbon black nanoparticles. <i>Journal of Materials Chemistry A</i> , 2014, 2, 18725-18730.	5.2	96
22	Hollow MnS Spheres and Their Hybrids with Reduced Graphene Oxide: Synthesis, Microwave Absorption, and Lithium Storage Properties. <i>ChemPlusChem</i> , 2013, 78, 843-851.	1.3	92
23	Facile synthesis of Ni <sub>2</sub> @MoS <sub>2</sub> core-shell nanospheres for effective enhancement in microwave absorption. <i>RSC Advances</i> , 2017, 7, 22454-22460.	1.7	88
24	Bioinspired design and assembly of platelet reinforced polymer films with enhanced absorption properties. <i>Journal of Materials Chemistry A</i> , 2014, 2, 5516-5524.	5.2	85
25	A MXene-modulated 3D crosslinking network of hierarchical flower-like MOF derivatives towards ultra-efficient microwave absorption properties. <i>Journal of Materials Chemistry A</i> , 2021, 9, 24571-24581.	5.2	85
26	Designed synthesis of nickel-cobalt-based electrode materials for high-performance solid-state hybrid supercapacitors. <i>Nanoscale</i> , 2020, 12, 1921-1938.	2.8	84
27	Effects of Al <sup>3+</sup> on the microstructure and biofloculation of anoxic sludge. <i>Journal of Environmental Sciences</i> , 2020, 91, 212-221.	3.2	78
28	Controllable Fabrication of CuS Hierarchical Nanostructures and Their Optical, Photocatalytic, and Wave Absorption Properties. <i>ChemPlusChem</i> , 2013, 78, 250-258.	1.3	77
29	Fabrication of Reduced Graphene Oxide (RGO)/Co <sub>3</sub> O <sub>4</sub> Nanohybrid Particles and a RGO/Co <sub>3</sub> O <sub>4</sub> /Poly(vinylidene fluoride) Composite with Enhanced Wave Absorption Properties. <i>ChemPlusChem</i> , 2014, 79, 375-381.	1.3	76
30	Hydrothermal synthesis of hierarchical CuS/ZnS nanocomposites and their photocatalytic and microwave absorption properties. <i>RSC Advances</i> , 2014, 4, 15579-15585.	1.7	76
31	Bi <sub>2</sub> S <sub>3</sub> /BaTiO <sub>3</sub> /PVDF three-phase composites with high dielectric permittivity. <i>Journal of Materials Chemistry</i> , 2009, 19, 2058.	6.7	75
32	Copper doped ceria porous nanostructures towards a highly efficient bifunctional catalyst for carbon monoxide and nitric oxide elimination. <i>Chemical Science</i> , 2015, 6, 2495-2500.	3.7	74
33	Interfacial synthesis of a three-dimensional hierarchical MoS <sub>2</sub> -NS@Ag-NP nanocomposite as a SERS nanosensor for ultrasensitive thiram detection. <i>Nanoscale</i> , 2017, 9, 8879-8888.	2.8	73
34	Fabrication of Fe <sub>3</sub> O <sub>4</sub> @SiO <sub>2</sub> @RGO nanocomposites and their excellent absorption properties with low filler content. <i>RSC Advances</i> , 2015, 5, 71718-71723.	1.7	71
35	Effects of graphite particles/Fe <sup>3+</sup> on the properties of anoxic activated sludge. <i>Chemosphere</i> , 2020, 253, 126638.	4.2	66
36	Microwave absorption enhancement and dual-nonlinear magnetic resonance of ultra small nickel with quasi-one-dimensional nanostructure. <i>Applied Surface Science</i> , 2018, 428, 54-60.	3.1	63

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37	Tunable wave absorption properties of $\text{Fe}^{2+}$ -MnO <sub>2</sub> nanorods and their application in dielectric composites. RSC Advances, 2012, 2, 6216.	1.7	61
38	CoNi alloy with tunable magnetism encapsulated by N-doped carbon nanosheets toward high-performance microwave attenuation. Composites Part B: Engineering, 2021, 215, 108781.	5.9	61
39	Excellent Microwave Absorption and Electromagnetic Interference Shielding Based on Reduced Graphene Oxide@MoS <sub>2</sub> /Poly(Vinylidene Fluoride) Composites. ChemPlusChem, 2016, 81, 1305-1311.	1.3	53
40	Synthesis and growth mechanism of 3D $\text{Fe}^{2+}$ -MnO <sub>2</sub> clusters and their application in polymer composites with enhanced microwave absorption properties. RSC Advances, 2013, 3, 18009.	1.7	49
41	Improved microwave absorption and electromagnetic interference shielding properties based on graphene-barium titanate and polyvinylidene fluoride with varying content. Materials Chemistry Frontiers, 2017, 1, 2519-2526.	3.2	49
42	Multi-Heteroatom-Doped Carbon Materials for Solid-State Hybrid Supercapacitors with a Superhigh Cycling Performance. Energy & Fuels, 2020, 34, 5032-5043.	2.5	45
43	Facile design and synthesis of nickel-molybdenum oxide/sulfide composites with robust microsphere structure for high-performance supercapacitors. Chemical Engineering Journal, 2019, 364, 462-474.	6.6	44
44	Reduced graphene oxide decorated with octahedral NiS <sub>2</sub> /NiS nanocrystals: facile synthesis and tunable high frequency attenuation. RSC Advances, 2019, 9, 5550-5556.	1.7	44
45	A general aerosol-assisted biosynthesis of functional bulk nanocomposites. National Science Review, 2019, 6, 64-73.	4.6	44
46	Electrospinning fabrication and ultra-wideband electromagnetic wave absorption properties of CeO <sub>2</sub> /N-doped carbon nanofibers. Nano Research, 2022, 15, 7788-7796.	5.8	44
47	Delicate control of crystallographic Cu <sub>2</sub> O derived Ni-Co amorphous double hydroxide nanocages for high-performance hybrid supercapacitors: an experimental and computational investigation. Nanoscale, 2021, 13, 8562-8574.	2.8	41
48	One-Pot Hydrothermal Synthesis of Hexagonal WO <sub>3</sub> Nanorods/Graphene Composites as High-Performance Electrodes for Supercapacitors. ChemPlusChem, 2017, 82, 1174-1181.	1.3	40
49	Synthesis of ZnS/CuS nanospheres loaded on reduced graphene oxide as high-performance photocatalysts under simulated sunlight irradiation. New Journal of Chemistry, 2017, 41, 5732-5744.	1.4	39
50	Synthesis and Growth Mechanism of White-Fungus-Like Nickel Sulfide Microspheres, and Their Application in Polymer Composites with Enhanced Microwave Absorption Properties. ChemPlusChem, 2014, 79, 569-576.	1.3	37
51	Enhanced microwave absorption material of ternary nanocomposites based on MnFe <sub>2</sub> O <sub>4</sub> @SiO <sub>2</sub> , polyaniline and polyvinylidene fluoride. RSC Advances, 2016, 6, 88104-88109.	1.7	35
52	Fe <sub>3</sub> O <sub>4</sub> -nanoparticle-decorated TiO <sub>2</sub> nanofiber hierarchical heterostructures with improved lithium-ion battery performance over wide temperature range. Nano Research, 2015, 8, 1659-1668.	5.8	33
53	Single-Crystalline ZnO Nanowire Bundles: Synthesis, Mechanism and Their Application in Dielectric Composites. Chemistry - A European Journal, 2010, 16, 10220-10225.	1.7	32
54	Recent progress in microwave absorption of nanomaterials: composition modulation, structural design, and their practical applications. IET Nanodielectrics, 2019, 2, 2-10.	2.0	30

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55	Enhanced Wave Absorption Properties of Nanocomposites Based on the Synthesized Bi <sub>2</sub> S <sub>3</sub> Nanorods and Polyvinylidene Fluoride. ChemPlusChem, 2014, 79, 1089-1095.	1.3	29
56	High-performance microwave absorption of flexible nanocomposites based on flower-like Co superstructures and polyvinylidene fluoride. RSC Advances, 2015, 5, 55468-55473.	1.7	29
57	Synthesis of a flower-like CuS/ZnS nanocomposite decorated on reduced graphene oxide and its photocatalytic performance. RSC Advances, 2015, 5, 36185-36191.	1.7	28
58	Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene Nanosheets Sandwiched between Ag Nanowire-Polyimide Fiber Mats for Electromagnetic Interference Shielding. ACS Applied Nano Materials, 2021, 4, 13976-13985.	2.4	27
59	Confined crystallization of polycrystalline high-magnesium calcite from compact Mg-ACC precursor tablets and its biological implications. CrystEngComm, 2011, 13, 952-956.	1.3	26
60	Controlled assembly of one-dimensional MoO <sub>3</sub> @Au hybrid nanostructures as SERS substrates for sensitive melamine detection. CrystEngComm, 2016, 18, 7805-7813.	1.3	26
61	Machinability of a silicon carbide particle-reinforced metal matrix composite. RSC Advances, 2016, 6, 21765-21775.	1.7	25
62	Three-dimensional MoS <sub>2</sub> @NS@Au NPs hybrids as SERS sensor for quantitative and ultrasensitive detection of melamine in milk. Journal of Raman Spectroscopy, 2018, 49, 245-255.	1.2	25
63	Controllable Synthesis of One-dimensional MoO <sub>3</sub> /MoS <sub>2</sub> Hybrid Composites with their Enhanced Efficient Electromagnetic Wave Absorption Properties. ChemPlusChem, 2019, 84, 226-232.	1.3	25
64	High Efficient Cu <sub>2</sub> O/TiO <sub>2</sub> Nanocomposite Photocatalyst to Degrade Organic Pollutant under Visible Light Irradiation. ChemistrySelect, 2018, 3, 1682-1687.	0.7	23
65	Synthesis of 3D flower-like hierarchical NiCo-LDH microspheres with boosted electrochemical performance for hybrid supercapacitors. Inorganic Chemistry Frontiers, 2021, 8, 4324-4333.	3.0	23
66	A surfactant-free route to synthesize Ba <sub>x</sub> Sr <sub>1-x</sub> TiO <sub>3</sub> nanoparticles at room temperature, their dielectric and microwave absorption properties. Science China Materials, 2016, 59, 609-617.	3.5	22
67	Template-assisted synthesis of NiCoO <sub>2</sub> nanocages/reduced graphene oxide composites as high-performance electrodes for supercapacitors. RSC Advances, 2018, 8, 16902-16909.	1.7	22
68	Excellent microwave absorption properties based on a composite of one dimensional Mo <sub>2</sub> C@C nanorods and a PVDF matrix. RSC Advances, 2019, 9, 21243-21248.	1.7	19
69	Preparation of Quasi-MIL-101(Cr) Loaded Ceria Catalysts for the Selective Catalytic Reduction of NO <sub>x</sub> at Low Temperature. Catalysts, 2020, 10, 140.	1.6	18
70	Controllable adjustment of the crystal symmetry of MnO <sub>2</sub> and its influence on the frequency of microwave absorption. RSC Advances, 2016, 6, 58844-58853.	1.7	17
71	Preparation of Flower-like Nickel-Based Bimetallic Organic Framework Electrodes for High-Efficiency Hybrid Supercapacitors. Crystals, 2021, 11, 1425.	1.0	17
72	Controllable synthesis of hollow spherical nickel chalcogenide (Ni <sub>2</sub> and Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 67 Td (NiSe 2021, 11, 11786-11792.	1.7	16

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73	Synthesis of NiMoSO/rGO Composites Based on NiMoO <sub>4</sub> and Reduced Graphene with High-Performance Electrochemical Electrodes. <i>ChemistrySelect</i> , 2018, 3, 6719-6728.	0.7	15
74	Enhanced Electromagnetic Absorption Properties of Commercial Ni/MWCNTs Composites by Adjusting Dielectric Properties. <i>Frontiers in Chemistry</i> , 2020, 8, 97.	1.8	15
75	Effects of Al <sup>3+</sup> on pollutant removal and extracellular polymeric substances (EPS) under anaerobic, anoxic and oxic conditions. <i>Frontiers of Environmental Science and Engineering</i> , 2019, 13, 1.	3.3	13
76	Manganese oxide – an excellent microwave absorbent for the oxidation of methylene blue. <i>RSC Advances</i> , 2015, 5, 55595-55601.	1.7	12
77	Biomass-derived multi-heteroatom-doped carbon materials for high-performance solid-state symmetric supercapacitors with superior long-term cycling stability. <i>Ionics</i> , 2020, 26, 4141-4151.	1.2	12
78	Tunable High-Performance Microwave Absorption and Shielding by Three Constituent Phases Between rGO and Fe <sub>3</sub> O <sub>4</sub> @SiO <sub>2</sub> Nanochains. <i>Frontiers in Chemistry</i> , 2019, 7, 711.	1.8	11
79	Preliminary research on Cr(VI) removal by bacterial cellulose. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2012, 27, 572-575.	0.4	10
80	Facile Size-Controllable Synthesis of Colorful Quasi-Cubic Fe <sub>2</sub> O <sub>3</sub> Materials from Nanoscale to Microscale and Their Properties Related to the Size Effect. <i>ChemPlusChem</i> , 2013, 78, 875-883.	1.3	10
81	Microwave absorption enhancement by adjusting reactant ratios and filler contents based on 1D MnO <sub>2</sub> @PDA and poly(vinylidene fluoride) matrix. <i>RSC Advances</i> , 2019, 9, 13088-13095.	1.7	10
82	Membrane-Solvothermal Synthesis of Cobalt Ferrite/Reduced Graphene Oxide Nanocomposites and Their Photocatalytic and Electromagnetic Wave Absorption Properties. <i>ChemistrySelect</i> , 2019, 4, 9516-9522.	0.7	9
83	Ultra-High Electromagnetic Absorption Property of One-Dimensional Carbon-Supported Ni/Mo <sub>2</sub> C and Polyvinylidene Fluoride. <i>Frontiers in Chemistry</i> , 2019, 7, 427.	1.8	9
84	Theoretical studies on phosphoraninato derivatives of Keggin-type polyoxometalates [PW <sub>11</sub> O <sub>39</sub> {MVNPPH <sub>3</sub> } <sub>3</sub> ] <sup>3-</sup> (M = Fe, Ru): Electronic structures and bonding features. <i>Science China Chemistry</i> , 2012, 55, 1910-1915.	4.2	8
85	Thermodynamics and kinetics of bacterial cellulose adsorbing persistent pollutant from aqueous solutions. <i>Chemical Research in Chinese Universities</i> , 2015, 31, 298-302.	1.3	8
86	Hybrids of cobalt nanochains and polyvinylidene fluoride with enhanced microwave absorption performance. <i>RSC Advances</i> , 2016, 6, 55546-55551.	1.7	8
87	The synthesis of Co <sub>x</sub> Ni <sub>1-x</sub> Fe <sub>2</sub> O <sub>4</sub> /multi-walled carbon nanotube nanocomposites and their photocatalytic performance. <i>RSC Advances</i> , 2019, 9, 33806-33813.	1.7	8
88	Synthesis and Microwave Absorbing Properties of Porous One-Dimensional Nickel Sulfide Nanostructures. <i>Frontiers in Chemistry</i> , 2018, 6, 405.	1.8	7
89	Electrochemical Performances Investigation of New Carbon-Coated Nickel Sulfides as Electrode Material for Supercapacitors. <i>Materials</i> , 2019, 12, 3509.	1.3	7
90	Synthesis of Controllable Nickel Chalcogenide Nano-Hollow Spheres and Their Tunable Absorbing Properties. <i>ChemistrySelect</i> , 2020, 5, 8185-8193.	0.7	7

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91	Enhanced Wave Absorption and Mechanical Properties of Cobalt Sulfide/PVDF Composite Materials. <i>Scientific Reports</i> , 2019, 9, 10488.	1.6	6
92	Effect of Mn <sup>2+</sup> on the phosphorus removal and biofloculation under anoxic condition. <i>Journal of Environmental Sciences</i> , 2022, 115, 37-46.	3.2	6
93	Fabrication of Akhtenskite Nanowires and Their Enhanced Microwave Absorption Properties. <i>Science of Advanced Materials</i> , 2016, 8, 966-971.	0.1	6
94	Enhancement in microwave absorption properties by adjusting the sintering conditions and carbon shell thickness of Ni@C submicrospheres. <i>CrystEngComm</i> , 2022, 24, 765-774.	1.3	6
95	Highly Water-Dispersible Fe <sub>3</sub> O <sub>4</sub> Single Nanocrystals: Gram-Scale Preparation by a Solution-Phase Route and Application for the Absorption of Cd <sup>2+</sup> in Water. <i>ChemPlusChem</i> , 2012, 77, 56-60.	1.3	5
96	Three-Dimensional Bi <sub>2</sub> Fe <sub>4</sub> O <sub>9</sub> Nanocubes Loaded on Reduced Graphene Oxide for Enhanced Electromagnetic Absorbing Properties. <i>Frontiers in Chemistry</i> , 2020, 8, 608.	1.8	3
97	Preparation and Microwave Absorption Properties of Ni <sub>x</sub> Sy/PVDF Nanocomposites. <i>Frontiers in Materials</i> , 2020, 7, .	1.2	2
98	Graphene-wrapped pine needle-like cobalt nanocrystals constructed by cobalt nanorods for efficient microwave absorption performance. <i>RSC Advances</i> , 2021, 11, 31499-31504.	1.7	2
99	Bioinspired High-Strength Montmorillonite-Alginate Hybrid Film: The Effect of Different Divalent Metal Cation Crosslinking. <i>Polymers</i> , 2022, 14, 2433.	2.0	2
100	Constructing Porous Flower-Like NiS <sub>2</sub> @MoS <sub>2</sub> Core-Shell Structure to Exploit High-Performance Microwave Absorbers. <i>Science of Advanced Materials</i> , 2021, 13, 1003-1011.	0.1	1
101	Optimization of preparation process for allylamine-bacterial cellulose via graft copolymerization by response surface methodology. <i>Chemical Research in Chinese Universities</i> , 2014, 30, 527-530.	1.3	0
102	Enhanced dielectric material of multi-functional PVDF/RGO composites. , 2016, , .		0
103	Immobilized Microbial Catalytic Oxidation Preparation and Application of Biopolymeric Ferric Sulfate. <i>Journal of Chemistry</i> , 2019, 2019, 1-11.	0.9	0